MongoDB

* It is a DataBase Management System.
* Our job is to create Applications (web/mobile)
* Frontend directly not communicate with DB, there is something in between that system helps 🡪 API’s
* These API’s communicate with the DB then it get the data, DB return the data to API(formatted, structurred, useful data)🡪 send to frontend

**Process:**

Frontend request data to API 🡪 API understands and sends to DB 🡪 DB makes the response to the API 🡪 API sends response to the frontend.

**DATABASE :**

It is a place where data is stored and managed. Whenever the data is needed by the application, the application calls for it and DB deliver the data.

ex: mails, products,..

The data can be anything (notepad, excels).  
Companies like

* Microsoft SQL Server
* Oracle SQL Server

Open Source DB (Domain name & Hosting servers also free)

* MySQL
* PostgresSQL

We can download install in PC or use the paid version to connect with the real time.

* Every DB system has different way of working, since the aim is to store data,

Ex: notepad, excel(little better than notepad), but the DBs are much more better than the excel, we can connect this through real time API’s.

* Some DB are stored the data in
  + Table
  + Object
  + Graph
  + Key-value format.
* Storing the data in one format is not the thing, need to interact with the system(store, update, delete, fetch, see), we need to write commands (SQL) for Microsoft/Oracle/MySQL.
* Terminal (SQL commands) 🡪 connect to DB System

(or)

API (Java/JS/Python) 🡪 connect to DB System.

(or)

Software where used by the Layman.

* We install the DB system into our PC (either install or buy cloud).

**MongoDB**

* Store data in a document format.

{

name : “My name”;

age: 1;

}

* DataBaseSystem --? It is a complete software as it holds a lot of Databases
* DataBase --? It is a place where similar place of data is stored. (or) DB is a top level object which is used to store related data based on projects.
* SQL 🡪 table (users/admins/products)